### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
RAYMOND A. MILLER
PEPPER HAMILTON LLP
500 GRANT STREET

## WRITTEN OPINION OF THE

ONE MELLON BANK CENTER, 50TH FLOOR PITTSBURGH, PA 15219		INTERNATIONAL SEARCHING AUTHORITY				
	·		(PCT Rule 43 <i>bis</i> .1)			
		Date of mailing (day/month/year) 11 SEP 2008				
Applicant's or agent's file reference		FOR FURTHER ACTION				
112911.02802		See paragraph 2 below				
International application No.	ational application No. International filing date (day/month/year) Priority date (day/month/year)		Priority date (day/month/year)			
PCT/US07/81260	12 October 2007 (12.10.	.2007) 13 October 2006 (13.10.2006)				
International Patent Classification (IPC) or both national classification and IPC						
IPC: G06F 19/00( 2006.01);G06G 7/58( 2006.01) USPC: 702/19,27;703/11						
Applicant THE TRUSTEES OF THE UNIVERSITY OF PRINCETON						
This opinion contains indications relating to the following items:      Box No. I Basis of the opinion						
Box No. II Priority	Basis of the opinion  Priority					
Box No. III Non-establ	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of un	Lack of unity of invention					
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doc	Certain documents cited					
Box No. VII Certain def	ects in the international ap	tional application				
Box No. VIII Certain obs	Certain observations on the international application					
2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/U	S Date of comple	tion of this opinion	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		3 (12.08.2008)	SUZANNE M. NOAKES			
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. 571-272-1600			
form PCT/ISA/237 (cover sheet) (April 20	070					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US07/81260

Box No	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)) regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been lished on the basis of:
, a.	type of material
	a sequence listing
	table(s) related to the sequence listing
ъ.	format of material
	on paper
	in electronic form
	In electronic form
c.	time of filing/furnishing
•	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additi	onal comments:
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US07/81260

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:				
the entire international application				
Claims Nos. <u>18-34</u>				
because:				
the said international application, or the said, claim Nos. 18-34 relate to the following subject matter which does not require an international search (specify):				
Applicants did not elect to pay the additional fees required to search the noted claims.				
the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no				
meaningful opinion could be formed (specify):				
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):				
no international search report has been established for said claims Nos. 18-34				
a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:				
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.				
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.				
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).				
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.				
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
See Supplemental Box for further details.				

Form PCT/ISA/237 (Box No. III) (April 2007)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/81260

Do- No V. Descend statement under Puls	43 his 1(a)(i)	with mount to novelty inv	entive step or industrial			
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement			•			
Novelty (N)	. Claims	NONE	YES			
	Claims		NONO			
·	•		•			
Inventive step (IS)		NONE	YES			
	Claims	1-17	NO			
Industrial applicability (IA)	Claims	1-17	YES			
		NONE	NO			
<u> </u>	•	·· <del>·</del>				
2. Citations and explanations:						
seep. 294, 1st column, 1st two paragraphs) to ascert synthesized compounds. It is noted that claims are compounds does not necessarily impart novelty and Claims 1-17 also lack novelty and an inventive step Pharm. Design, 2004, 10:1139-59) who teach many are analogues of these compounds and which inhibit compounds are taught which also inhibit PP2A. See 3.1.5 Fostriecein. In addition, it also taught that PP development new inhibitor compounds based on moinstance, it is noted that the strategy used by Wipf e analogues have been developed and tested (see Sectare drawn to product-by-process compounds where and an inventive step to said compound and thus the	drawn to product an inventive state of under PCT Arts of different PP2A (see Sec Sections 3.1.2 2A and PP1 may oblecular model in tal. has led to the different process of the sections 3.3.6) which in said process of the section said process of the sectio	et-by-process compounds where ep to said compound.  Icle 33(2)&(3) as being anticipal compounds that are not akadaic tions 3.1.1 (Table 1) and 3.1.3 (Tautomycins (and Tables 2 and y have a common pharmacophong studies (see Section 3.1.6, 3.2 ne development of a common phane that are not a common pharmacophon that are greater than 50% inhibition generating said compounds do	ted by Sakoff & McCluskey (Curr. acid or microcystin-LR, but which Table 4), respectively). Many othe 3); Section 3.1.4 Cantaridin; Sectione which is useful in the design and 4, and all of Section 3.3). For armacophore and as a result, 18 on at 100 µM. It is noted that claim has not necessarily impart novelty			
Claims 1-17 meet the criteria set out in PCT Article can be made or used in industry. The compounds o therapeutic compounds.	33(4), and thus f the instant clai	possess industrial applicability med invention may be useful in	because the subject matter claimed the medical industry as potential			
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